

# eVision

## Image Analysis Tools

### Features

- Easy to learn and use
- Optimized for MMX
- Compatible with Windows 95/98/2000/ NT
- Compatible with Microsoft VB, VC++, Borland C++, and C++ Builder

### Introduction

eVision forms a unique suite of software tools tailored to industrial machine vision. The eVision tools are suitable for a variety of measurements, character recognition, mark inspection or surface analysis on grayscale and color images. The tools also contain pre-processing functions for image enhancement and noise reduction. Easy to understand, open, and well documented, the eVision tools quickly integrate into any application requiring image processing or analysis. The eVision tools are based on Object Oriented Programming (OOP) concepts. They allow you to develop your application under the most up-to-date programming environments and operating systems. They exploit the power of your Pentium processor and are optimized for MMX technology.

### eVision Starting Kit

The eVision Starting Kit groups the following 5 libraries: EasyMatch; EasyColor EasyObject; EasyImage; EasyGauge; EasyAccess is free and included with any library

### Programming Assistant

#### Manuals

Three manuals are available: a User's Guide, a C++ Reference Guide, and an ActiveX Reference Guide. They are all available on line, on the eVision CD. Printed copies are included with any license, except additional licenses.

#### EasyAccess

For development, you can choose the user-friendliness of Visual Basic or the power of C++. In both cases, EasyAccess, our user interface and code generator will help you to find the image processing function you need and will write the code for you.

### License Management

#### First and Additional Licenses

Every end-user must purchase one license for every library used. After this first license has been purchased, you are entitled to buy additional licenses, at a reduced cost. Please note that additional licenses do not include manuals and CDs.

#### Protection Scheme

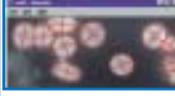
- eVision licenses are system licenses, i.e. they authorize the execution of the eVision libraries on one PC.
- They can be stored either on PICOLO series, DOMINO series frame grabber card or memory dongle. (plugged on the parallel port of the PC)
- A dongle is delivered with the eVision Starting Kit. In all other cases, dongles must be purchased separately.

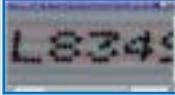
### Ordering Information

Model	Product Name	Description
2171	eVision Starting Kit(*)	Manuals + CD + Memory dongle with 5 basic libraries authority: EasyImage, EasyColor, EasyObject, EasyGauge, EasyMatch
2181	Mark Inspection Kit(*)	Manuals + CD + Memory dongle with 4 Mark inspection libraries authority : EasyOCR, EasyOCV, EasyMatrixCode, EasyBarCode
2166	EasyFind(**)	EasyFind library first license without memory dongle
2165	EasyBGA(**)	EasyBGA library first license without memory dongle
2171-Add	eVision Starting Kit -add(**)	Additional licenses of 5 basic libraries without memory dongle
2181-Add	Mark Inspection Kit - add(**)	Additional licenses of 4 Mark Inspection libraries without memory dongle
2166-Add	EasyFind - add(**)	Additional license of EasyFind library without memory dongle
2165-Add	EasyBGA - add(**)	Additional license of EasyBGA library without memory dongle
511	COM Port Memory Dongle	Carrier of eVision licenses
512	USB Port Memory Dongle	Carrier of eVision licenses
513	Compact Parallel Port Memory Dongle	Carrier of eVision licenses

(\*) 2152-EasyImage, 2160-EasyColor, 2154-EasyObject, 2167-EasyGauge, 2157-EasyMatch, 2155-EasyOCR, 2162-EasyOCV, 2163-EasyMatrixCode, 2168-EasyBarCode can be separated for single or combine orders. Extra Memory dongle can be ordered for combined orders.

(\*\*) EureSys frame grabber or memory dongle is necessary to carry licenses. Systems with EureSys frame grabber or memory dongle carrying specific license codes can only access its corresponding libraries.

eVision Starting Kit	
EasyImage	Key Features
	Convolutions and morphology Geometric transformations Image Statistics Image Processing
	Fast conversion to 11 color spaces Color segmentation Color verification Color inspection
	Image segmentation Object labeling Geometric feature extraction Blob analysis
	Edge finding tool Line and circle fitting tools Measurement of sizes, angles and positions Sub-pixel measurement
	Sub-pixel precision Rotation and scaling Don't care area Industrial pattern matching

Mark Inspection Kit	
EasyOCR	Key Features
	Teachable system, reliable and robust recognition Pre-defined fonts Optical character recognition
	Comprehensive automatic teaching Accurate built-in calibration Grayscale analysis Optical character verification
	Code rotation and scaling Automatic code detection Error detection and correction Data matrix 2D code reading
	Product identification Bar code verification automatic symbology identification and detection

eVision Application Libraries	
EasyFind	Key Features
	Fiducial alignment Die and wire pouncing PCB inspection printing industry Geometric template matching
	Model definition and archiving Missing and Extra ball detection Precise calibration includes Ball position, pitch, diameter and circularity measurement BGA inspection